

### ABSTRACT

1           A golf green measuring device according to the present invention includes a plurality  
2 of spaced apart rails attached to an enclosed structure. The structure includes a control unit  
3 including a microcontroller, circuitry, a battery, a display and a level indicator. The rails  
4 include infrared emitters and detectors that sense a golf ball traveling through the enclosed  
5 structure. The microcontroller measures the elapsed time the golf ball travels between a pair  
6 of detectors disposed at the rail front end and the elapsed time the golf ball travels between  
7 another pair of detectors disposed at the rail rear end. The change in velocity or deceleration  
8 of the golf ball is determined based on the measured time intervals and converted into a speed  
9 value. The computed speed value is displayed on a device display. The device may include  
10 an optional printer to provide a hardcopy of the measurement.